

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50765

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C10L3/06 C10G25/12 C10L3/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C10L C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 725 299 A (LEE M ET AL) 3 April 1973 (1973-04-03) the whole document	1-3,5,7, 9,11
X	US 5 041 693 A (ZARCHY ANDREW S) 20 August 1991 (1991-08-20) column 8, line 59 - line 64; claim 1	1-3,12
X	EP 0 335 034 A (UOP INC) 4 October 1989 (1989-10-04) page 5, line 48 -page 6, line 56 page 9, line 5 -page 10, line 13; claims 1,2,17,20	1-3,5,6, 8-12
X	US 3 051 646 A (BROOKE JESSE M) 28 August 1962 (1962-08-28) the whole document	1,3,5,6, 9-11
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

9 February 2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 566 611 A (STERRETT EUGENE L) 2 March 1971 (1971-03-02) the whole document ---	1-6
X	GB 2 275 625 A (SHELL INT RESEARCH) 7 September 1994 (1994-09-07) the whole document ---	1-5,7,9, 11,12
X	US 4 358 297 A (EBERLY JR PAUL E) 9 November 1982 (1982-11-09) the whole document ---	1,3-5,7, 9,11
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X	WO 00 56441 A (AGARWAL PRADEEP K ;HULL ASHLEY S (US); UNIV WYOMING (US); LINJEWIL) 28 September 2000 (2000-09-28) page 7, line 12 - line 21; claim 1 ---	1-4,7,9, 11
X	CN 1 227 255 A (LI ZHIYI) 1 September 1999 (1999-09-01) abstract -----	1,12

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Information on patent family members

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